



State of New Hampshire
DEPARTMENT OF ENVIRONMENTAL SERVICES

6 Hazen Drive, P.O. Box 95, Concord, NH 03302-0095
(603) 271-3406 FAX (603) 271-7894



Mr. Ronald Shover
City of Manchester
Parks & Recreation Dept.
625 Mammoth Road
Manchester, NH 03104

September 13, 2002
Letter of Deficiency
DAM #150.07

RE: Black Brook Dam, Manchester

Dear Mr. Shover:

The Department of Environmental Services, Dam Bureau (DES) consistently strives to enhance the safety of dams in New Hampshire through its dam safety program. One of the many instruments that plays a part in reaching this goal is our inspection program. DES is forwarding this correspondence to you to advise you that in accordance with RSA 482:12 and Env-Wr 502.02, an inspection of the subject dam was conducted on November 14, 2001. During this visual inspection and/or file review, the following deficiencies were observed:

The upstream face of the waste gate bar rack was clogged with debris;

2. The concrete is spalling on the upstream face of the right abutment, toward the waste gate. In addition, there is a significant amount of efflorescence on this abutment; and
3. There is seepage at the base of the right masonry spillway abutment wall. The seepage discharge appears to have increased to an estimated 5 gpm since it was last inspected in 1997. At the time of the 1997 inspection, the water level was approximately 6" lower than it was during the 2001 inspection.

DES believes that the above deficiencies can be corrected by performing the following items by the indicated schedule:

Update and test the Emergency Action Plan (EAP) if necessary. The test of the EAP should be conducted on an annual basis;

2. Update the operation and maintenance plan (O&M) if necessary;
3. Remove the debris from the upstream face of the waste gate bar rack;
4. Repair the spalling concrete on the upstream face of the right abutment; and
5. Carefully monitor the seepage at the base of the right masonry spillway abutment wall and notify the DES if there is any increase. Consider using a logbook to record the seepage discharge rate and corresponding pond level. Include a monitoring schedule in the O&M plan.

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As a result of this inspection and through file review DES has determined that you are in full compliance with your February 12, 1998 Letter of Deficiency. Thank you for your compliance in this matter.

DES is requesting that you complete and submit the attached "Intent to Complete Repairs" form, within 30 days of receipt of this letter, that will provide for correction of the identified deficiencies by the date(s) indicated above. If you believe changes to the items of work or dates are necessary, please make the changes directly on the form and provide a brief explanation. We have enclosed a self addressed stamped envelope for you to return this form.

Our intent in sending you this correspondence is to make you aware of items that DES believes warrant your attention to insure the continued safe operation of your dam. It is our hope that, through the submittal of the attached form and a commitment to keeping a well-maintained dam, you will voluntarily comply with the requested items of work. If we do not receive the intent form or a similarly adequate written reply, we will assume that you are in agreement with our findings and recommendations and DES will carry out follow-up inspections accordingly.

If you have any questions or comments regarding this Letter of Deficiency or would like to be present at future inspections, please contact me at 271-3406, or write to the Water Division at the address listed on the top of the previous page.

Sincerely

COPY
Amy C. Clark

Amy C. Clark, P.E.
Dam Safety Engineer

Attachments DB13

cc: Gretchen Rule✓

Certified # 7000 1670 0000 0586 0790

ACC/was/h:/safety/wendy/lod/150-07lod.doc



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Department of Environmental Services
State Dam Safety Program
Water Division, Dam Bureau
6 Hazen Drive, P.O. Box 95
Concord, NH 03302-0095

Intent to Complete Repairs
DAM #150.07
DAM Black Brook Dam

RE: Letter of Deficiency Issued on September 13, 2002

Dear Dam Safety Program

In response to the above referenced Letter of Deficiency (LOD), I concur with the Department of Environmental Service's recommendations, and specifically agree to complete the following items by the indicated schedule.

DATE: December 31, 2002

1. Update and test the Emergency Action Plan (EAP) if necessary The test of the EAP should be conducted on an annual basis;
2. Update the operation and maintenance plan (O&M) if necessary;
- 3 Remove the debris from the upstream face of the waste gate bar rack;
- 4 Repair the spalling concrete on the upstream face of the right abutment; and
- 5 Carefully monitor the seepage at the base of the right masonry spillway abutment wall and notify the DES if there is any increase. Consider using a logbook to record the seepage discharge rate and corresponding pond level. Include a monitoring schedule in the O&M plan.

In lieu of the above, you may propose adjustments to the content or schedule associated with the requested repairs/work. (please state reasons for proposal and use reverse side if more space is needed).

Signature of Owner _____

_____ (print name)

Date: _____

ENG-: ACC